

L Number	Hits	Search Text	DB	Time stamp
1	247	(568/683).CCLS.	USPAT; US-PGPUB; EPO; JPO; DERWENT	2004/03/20 14:51
2	544	(antimony adj pentachloride or sbcl5!) and (hydrogen adj fluoride or hf!)	USPAT; US-PGPUB; EPO; JPO; DERWENT	2004/03/20 14:52
3	13	((568/683).CCLS.) and ((antimony adj pentachloride or sbcl5!) and (hydrogen adj fluoride or hf!))	USPAT; US-PGPUB; EPO; JPO; DERWENT	2004/03/20 15:07
4	13	rozov-leonid-a.in. or lessor-ralph-a.in.	USPAT; US-PGPUB; EPO; JPO; DERWENT	2004/03/20 15:08

10/645,884

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NEWS	1		Web Page URLs for STN Seminar Schedule - N. America
NEWS	2		"Ask CAS" for self-help around the clock
NEWS	3	SEP 09	CA/Caplus records now contain indexing from 1907 to the present
NEWS	4	DEC 08	INPADOC: Legal Status data reloaded
NEWS	5	SEP 29	DISSABS now available on STN
NEWS	6	OCT 10	PCTFULL: Two new display fields added
NEWS	7	OCT 21	BIOSIS file reloaded and enhanced
NEWS	8	OCT 28	BIOSIS file segment of TOXCENTER reloaded and enhanced
NEWS	9	NOV 24	MSDS-CCOHS file reloaded
NEWS	10	DEC 08	CABA reloaded with left truncation
NEWS	11	DEC 08	IMS file names changed
NEWS	12	DEC 09	Experimental property data collected by CAS now available in REGISTRY
NEWS	13	DEC 09	STN Entry Date available for display in REGISTRY and CA/Caplus
NEWS	14	DEC 17	DGENE: Two new display fields added
NEWS	15	DEC 18	BIOTECHNO no longer updated
NEWS	16	DEC 19	CROPU no longer updated; subscriber discount no longer available
NEWS	17	DEC 22	Additional INPI reactions and pre-1907 documents added to CAS databases
NEWS	18	DEC 22	IFIPAT/IFIUDB/IFICDB reloaded with new data and search fields
NEWS	19	DEC 22	ABI-INFORM now available on STN
NEWS	20	JAN 27	Source of Registration (SR) information in REGISTRY updated and searchable
NEWS	21	JAN 27	A new search aid, the Company Name Thesaurus, available in CA/Caplus
NEWS	22	FEB 05	German (DE) application and patent publication number format changes
NEWS	23	MAR 03	MEDLINE and LMEDLINE reloaded
NEWS	24	MAR 03	MEDLINE file segment of TOXCENTER reloaded
NEWS	25	MAR 03	FRANCEPAT now available on STN
NEWS EXPRESS			MARCH 5 CURRENT WINDOWS VERSION IS V7.00A, CURRENT MACINTOSH VERSION IS V6.0b(ENG) AND V6.0Jb(JP), AND CURRENT DISCOVER FILE IS DATED 3 MARCH 2004
NEWS HOURS			STN Operating Hours Plus Help Desk Availability
NEWS INTER			General Internet Information
NEWS LOGIN			Welcome Banner and News Items
NEWS PHONE			Direct Dial and Telecommunication Network Access to STN
NEWS WWW			CAS World Wide Web Site (general information)

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=> file reg

COST IN U.S. DOLLARS

SINCE FILE

TOTAL

ENTRY

SESSION

FULL ESTIMATED COST

0.21

0.21

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STRUCTURE FILE UPDATES: 18 MAR 2004 HIGHEST RN 664965-23-5

DICTIONARY FILE UPDATES: 18 MAR 2004 HIGHEST RN 664965-23-5

TSCA INFORMATION NOW CURRENT THROUGH JANUARY 6, 2004

Please note that search-term pricing does apply when conducting SmartSELECT searches.

Crossover limits have been increased. See HELP CROSSOVER for details.

Experimental and calculated property data are now available. For more information enter HELP PROP at an arrow prompt in the file or refer to the file summary sheet on the web at:

<http://www.cas.org/ONLINE/DBSS/registryss.html>

=> isoflurane/cn

ISOFLURANE IS NOT A RECOGNIZED COMMAND

The previous command name entered was not recognized by the system.

For a list of commands available to you in the current file, enter

"HELP COMMANDS" at an arrow prompt (=>).

=> s isoflurane/cn

L1 1 ISOFLURANE/CN

=> d

L1 ANSWER 1 OF 1 REGISTRY COPYRIGHT 2004 ACS on STN

RN 26675-46-7 REGISTRY

CN Ethane, 2-chloro-2-(difluoromethoxy)-1,1,1-trifluoro- (9CI) (CA INDEX NAME)

OTHER CA INDEX NAMES:

CN Ether, 1-chloro-2,2,2-trifluoroethyl difluoromethyl (8CI)

OTHER NAMES:

CN (±)-Isoflurane

CN 1-Chloro-2,2,2-trifluoroethyl difluoromethyl ether

CN Aerrane

CN Compound 469

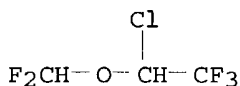
CN Difluoromethyl 1-chloro-2,2,2-trifluoroethyl ether

CN Forane

CN Forene

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CN HCFE 235da2  
CN **Isoflurane**  
CN R-E 235da1  
FS 3D CONCORD  
DR 132998-92-6  
MF C3 H2 Cl F5 O  
CI COM  
LC STN Files: ADISNEWS, AGRICOLA, ANABSTR, BEILSTEIN\*, BIOBUSINESS, BIOSIS, BIOTECHNO, CA, CABA, CANCERLIT, CAPLUS, CASREACT, CBNB, CEN, CHEMCATS, CHEMINFORMRX, CHEMLIST, CIN, CSCHM, CSNB, DDFU, DETHERM\*, DIOGENES, DRUGU, EMBASE, IFICDB, IFIPAT, IFIUDB, IMSCOSEARCH, IMSPATENTS, IPA, MEDLINE, MRCK\*, MSDS-OHS, NIOSHTIC, PHAR, PIRA, PROMT, RTECS\*, SPECINFO, SYNTHLINE, TOXCENTER, USAN, USPAT2, USPATFULL, VETU  
(\*File contains numerically searchable property data)  
Other Sources: EINECS\*\*, WHO  
(\*\*Enter CHEMLIST File for up-to-date regulatory information)



\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

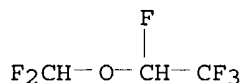
3053 REFERENCES IN FILE CA (1907 TO DATE)  
3057 REFERENCES IN FILE CAPLUS (1907 TO DATE)

=> s desflurane/cn  
L2 1 DESFLURANE/CN

=>  
=> d

L2 ANSWER 1 OF 1 REGISTRY COPYRIGHT 2004 ACS on STN  
RN 57041-67-5 REGISTRY  
CN Ethane, 2-(difluoromethoxy)-1,1,1,2-tetrafluoro- (9CI) (CA INDEX NAME)  
OTHER NAMES:  
CN 2-(Difluoromethoxy)-1,1,1,2-tetrafluoroethane  
CN **Desflurane**  
CN Difluoromethyl 1,2,2,2-tetrafluoroethyl ether  
CN HFE 236  
CN I 653  
CN R-E 236ea1  
CN Suprane  
FS 3D CONCORD  
DR 153482-15-6  
MF C3 H2 F6 O  
CI COM  
LC STN Files: ADISNEWS, AGRICOLA, ANABSTR, BIOBUSINESS, BIOSIS, BIOTECHNO, CA, CANCERLIT, CAPLUS, CASREACT, CBNB, CEN, CHEMCATS, CHEMLIST, CIN, CSCHM, CSNB, DDFU, DETHERM\*, DIOGENES, DRUGU, EMBASE, IFICDB, IFIPAT, IFIUDB, IMSDRUGNEWS, IMSPATENTS, IMSRESEARCH, IPA, MEDLINE, MRCK\*, PHAR, PROMT, RTECS\*, SYNTHLINE, TOXCENTER, USAN, USPAT2, USPATFULL, VETU  
(\*File contains numerically searchable property data)  
Other Sources: WHO

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523 REFERENCES IN FILE CA (1907 TO DATE)  
525 REFERENCES IN FILE CAPLUS (1907 TO DATE)

=> file chemistry patent

FILE 'ENCOMPLIT' ACCESS NOT AUTHORIZED

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COST IN U.S. DOLLARS

SINCE FILE	TOTAL
ENTRY	SESSION
13.24	13.45

FULL ESTIMATED COST

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FILE 'WPINDEX' ACCESS NOT AUTHORIZED

=> s (desflurane or 57041-67-5) and (isoflurane or 26675-46-7)

39 FILES SEARCHED...

61 FILES SEARCHED...

L3 2070 (DESFLURANE OR 57041-67-5) AND (ISOFLURANE OR 26675-46-7)

=> file reg

COST IN U.S. DOLLARS

SINCE FILE

TOTAL

ENTRY

SESSION

FULL ESTIMATED COST

119.72

133.17

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DICTIONARY FILE UPDATES: 18 MAR 2004 HIGHEST RN 664965-23-5

TSCA INFORMATION NOW CURRENT THROUGH JANUARY 6, 2004

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Crossover limits have been increased. See HELP CROSSOVER for details.

Experimental and calculated property data are now available. For more information enter HELP PROP at an arrow prompt in the file or refer to the file summary sheet on the web at:  
<http://www.cas.org/ONLINE/DBSS/registryss.html>

=> s antimoony pentachloride/cn

L4 0 ANTIMOONY PENTACHLORIDE/CN

=> s antimony pentachloride/cn

L5 1 ANTIMONY PENTACHLORIDE/CN

=> d

L5 ANSWER 1 OF 1 REGISTRY COPYRIGHT 2004 ACS on STN

RN 7647-18-9 REGISTRY

CN Antimony chloride (SbCl5) (8CI, 9CI) (CA INDEX NAME)

OTHER NAMES:

CN **Antimony pentachloride**

CN Antimony pentachloride (SbCl5)

CN Antimony perchloride

CN Antimony(V) chloride

CN Pentachloroantimony

DR 12314-11-3

MF Cl5 Sb

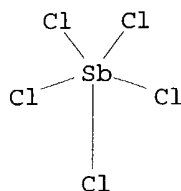
CI COM

LC STN Files: AGRICOLA, AQUIRE, BIOBUSINESS, BIOSIS, CA, CAOLD, CAPLUS, CASREACT, CBNB, CHEMCATS, CHEMINFORMRX, CHEMLIST, CIN, CSCHEM, CSNB, DETHERM\*, GMELIN\*, HSDB\*, IFICDB, IFIPAT, IFIUDB, IPA, MEDLINE, MRCK\*, MSDS-OHS, NIOSHTIC, PDLCOM\*, PIRA, PROMT, RTECS\*, TOXCENTER, ULIDAT, USPAT2, USPATFULL

(\*File contains numerically searchable property data)

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Other Sources: DSL\*\*, EINECS\*\*, TSCA\*\*  
(\*\*Enter CHEMLIST File for up-to-date regulatory information)



2335 REFERENCES IN FILE CA (1907 TO DATE)  
65 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA  
2337 REFERENCES IN FILE CAPLUS (1907 TO DATE)  
20 REFERENCES IN FILE CAOLD (PRIOR TO 1967)

=> s hydrogen fluoride/cn  
L6 1 HYDROGEN FLUORIDE/CN

=> d

L6 ANSWER 1 OF 1 REGISTRY COPYRIGHT 2004 ACS on STN  
RN 7664-39-3 REGISTRY  
CN Hydrofluoric acid (8CI, 9CI) (CA INDEX NAME)  
OTHER NAMES:  
CN Alsurf 45  
CN Anhydrous hydrofluoric acid  
CN Antisal 2b  
CN Fluorhydric acid  
CN Fluoric acid  
CN Fluorine hydride (FH)  
CN Fluorine monohydride  
CN G-C Hydrofluoride Gel  
CN Hydrofluoric acid gas  
CN **Hydrogen fluoride**  
CN Hydrogen fluoride (HF)  
CN Hydrogen monofluoride  
CN Urine Luck 6.3  
DR 32057-09-3, 326604-75-5  
MF F H  
CI COM  
LC STN Files: ADISNEWS, AGRICOLA, ANABSTR, BIOBUSINESS, BIOSIS, BIOTECHNO,  
CA, CABA, CANCERLIT, CAPLUS, CASREACT, CBNB, CEN, CHEMCATS,  
CHEMINFORMRX, CHEMLIST, CHEMSAFE, CIN, CSCHM, CSNB, DETHERM\*, DIPPR\*,  
EMBASE, ENCOMPLIT, ENCOMPLIT2, ENCOMPPAT, ENCOMPPAT2, GMELIN\*, HSDB\*,  
IFICDB, IFIPAT, IFIUDB, IPA, MEDLINE, MRCK\*, MSDS-OHS, NIOSHTIC,  
PDLCOM\*, PIRA, PROMT, RTECS\*, TOXCENTER, TULSA, ULIDAT, USPAT2,  
USPATFULL, VTB  
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Other Sources: DSL\*\*, EINECS\*\*, TSCA\*\*  
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36089 REFERENCES IN FILE CA (1907 TO DATE)  
268 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA  
36124 REFERENCES IN FILE CAPLUS (1907 TO DATE)

=> file chemistry patent

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SINCE FILE

TOTAL

ENTRY

SESSION

FULL ESTIMATED COST

17.67

150.84

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=> s (antimony pentachloride or 7647-18-9) and (hydrogen fluoride or 7664-39-3)  
31 FILES SEARCHED...  
56 FILES SEARCHED...  
L7 855 (ANTIMONY PENTACHLORIDE OR 7647-18-9) AND (HYDROGEN FLUORIDE OR  
7664-39-3)

10/645,884

=> d his

(FILE 'HOME' ENTERED AT 15:16:00 ON 20 MAR 2004)

FILE 'REGISTRY' ENTERED AT 15:16:27 ON 20 MAR 2004

L1 1 S ISOFLURANE/CN  
L2 1 S DESFLURANE/CN

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L3 2070 S (DESFLURANE OR 57041-67-5) AND (ISOFLURANE OR 26675-46-7)

FILE 'REGISTRY' ENTERED AT 15:19:16 ON 20 MAR 2004

L4 0 S ANTIMOONY PENTACHLORIDE/CN  
L5 1 S ANTIMONY PENTACHLORIDE/CN  
L6 1 S HYDROGEN FLUORIDE/CN

FILE 'AGRICOLA, ALUMINIUM, ANABSTR, APOLLIT, AQUIRE, BABS, BIOCOMMERCE, BIOTECHNO, CABA, CAOLD, CAPLUS, CBNB, CEABA-VTB, CEN, CERAB, CIN, COMPENDEX, CONFSCI, COPPERLIT, CORROSION, DISSABS, ENCOMPLIT2, FEDRIP, GENBANK, INSPEC, INSPHYS, INVESTEXT, IPA, ...' ENTERED AT 15:20:23 ON 20 MAR 2004

L7 855 S (ANTIMONY PENTACHLORIDE OR 7647-18-9) AND (HYDROGEN FLUORIDE

=> s l3 and l7

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=> d 1-3 bib ab

L9 ANSWER 1 OF 3 EUROPATFULL COPYRIGHT 2004 WILA on STN

PATENT APPLICATION - PATENTANMELDUNG - DEMANDE DE BREVET

AN 583540 EUROPATFULL ED 20000227 EW 199408 FS OS STA B  
TIEN Synthesis of **desflurane**.  
TIDE Herstellung von Desfluran.  
TIFR Synthese de **desflurane**.  
IN Rozov, Leonid A., 35-08 Gardenvue Ter., Fair Lawn, New Jersey 07410, US;  
Huang, Chialang, 564 Darwin Blvd., Edison, New Jersey 08820, US;

10/645,884

PA Vernice, Gerald G., 11 Plymouth Road, Nutley, New Jersey 07110, US  
PAN Anaquest, Inc., 110 Allen Road, Liberty Corner, NJ 07938-0804, US  
1322181  
AG Wickham, Michael et al, c/o Patent and Trademark Department The BOC  
Group plc Chertsey Road, Windlesham Surrey GU20 6HJ, GB  
AGN 37683  
OS ESP1994012 EP 0583540 A1 940223  
SO Wila-EPZ-1994-H08-T1a  
DT Patent  
LA Anmeldung in Englisch; Veroeffentlichung in Englisch  
DS R AT; R BE; R CH; R DE; R DK; R ES; R FR; R GB; R GR; R IE; R IT; R LI;  
R LU; R NL  
PIT EPA1 EUROPÄISCHE PATENTANMELDUNG  
PI EP 583540 A1 19940223  
OD 19940223  
AI EP 1993-103317 19930302  
PRAI US 1992-930867 19920814  
ABEN An improved preparation of **desflurane**, 1,2,2,2-  
tetrafluoroethyl difluoromethyl ether utilizing hexafluoropropene  
epoxide as a starting material. Hexafluoropropene epoxide is  
advantageous in that it is relatively inexpensive and is  
environmentally acceptable.

L9 ANSWER 2 OF 3 USPATFULL on STN  
AN 93:33171 USPATFULL  
TI Synthesis of **desflurane**  
IN Rozov, Leonid A., Fair Lawn, NJ, United States  
Huang, Chialang, Edison, NJ, United States  
Vernice, Gerald G., Nutley, NJ, United States  
PA Anaquest, Inc., Liberty Corner, NJ, United States (U.S. corporation)  
PI US 5205914 19930427  
AI US 1992-930867 19920814 (7)  
DT Utility  
FS Granted  
EXNAM Primary Examiner: Niebling, John; Assistant Examiner:  
Delacroix-Muirheid, C.  
LREP Swope, R. Hain, Cassett, Larry R.  
CLMN Number of Claims: 10  
ECL Exemplary Claim: 1  
DRWN No Drawings  
LN.CNT 395  
CAS INDEXING IS AVAILABLE FOR THIS PATENT.  
AB An improved preparation of **desflurane**, 1,2,2,2-  
tetrafluoroethyl difluoromethyl ether utilizing hexafluoropropene  
epoxide as a starting material. Hexafluoropropene epoxide is  
advantageous in that it is relatively inexpensive and is environmentally  
acceptable.

L9 ANSWER 3 OF 3 CAPLUS COPYRIGHT 2004 ACS on STN  
AN 1991:121477 CAPLUS  
DN 114:121477  
TI Process for production of 1,2,2,2-tetrafluoroethyl difluoromethyl ether  
IN Cicco, Charles F.  
PA BOC Inc., USA  
SO Eur. Pat. Appl., 6 pp.  
CODEN: EPXXDW  
DT Patent  
LA English  
FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
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PI EP 388114 A2 19900919 EP 1990-302597 19900312  
EP 388114 A3 19910717  
EP 388114 B1 19931124  
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE  
CA 1312339 A1 19930105 CA 1989-615478 19890929  
US 5026924 A 19910625 US 1990-461134 19900104  
AU 9050790 A1 19900920 AU 1990-50790 19900307  
AU 620502 B2 19920220  
AT 97648 E 19931215 AT 1990-302597 19900312  
ES 2060023 T3 19941116 ES 1990-302597 19900312  
NO 9001163 A 19900917 NO 1990-1163 19900313  
NO 172178 B 19930308  
NO 172178 C 19930616  
JP 02279646 A2 19901115 JP 1990-63928 19900314  
PRAI US 1989-323579 19890314  
US 1990-461134 19900104  
EP 1990-302597 19900312

AB Title compound (I) a known inhalation anesthetic is prepared by reaction of  $\text{CF}_3\text{CHClOCHF}_2$  (II) with HF at a ratio of (1.0:0.1)-(1:7), in presence of  $\text{SbCl}_5$  or  $\text{SbCl}_3$  at  $-7^\circ$  to  $+30^\circ$  and 82.7-482.6 kPa. II, HF (1:2), and  $\text{SbCl}_5$  were cooled to  $14^\circ$  to give 80.7% I with 78.2% conversion of II.

=> log y

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